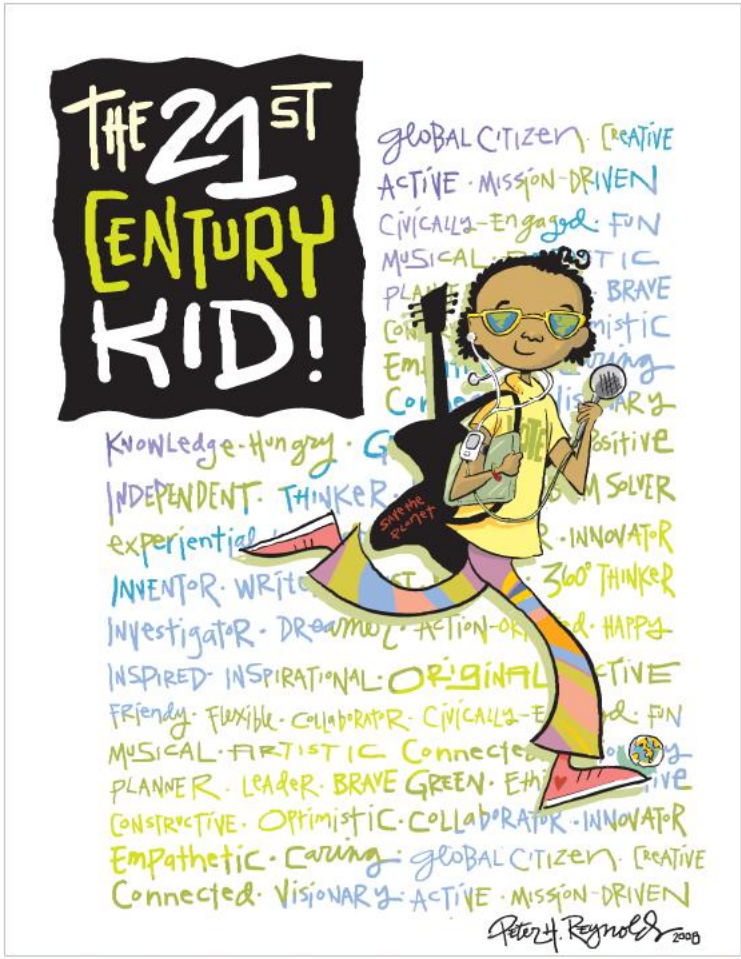
Arizona Department of Education



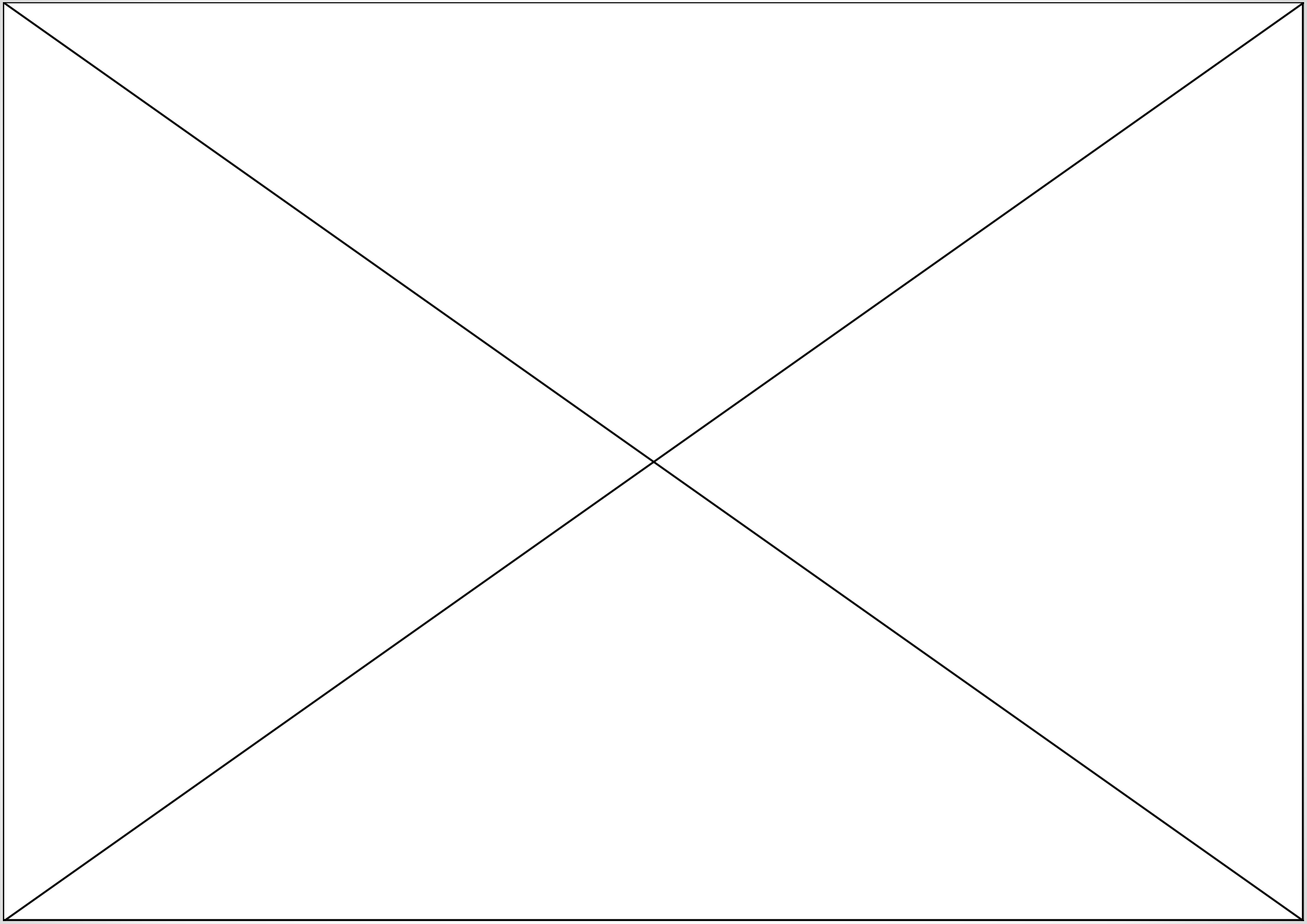
Permission granted to use for non-commercial, educational purposes. "21st Century Kid" © 2008, Peter H. Reynolds.
For more info, visit www.FableVisionLearning.com.

Supporting Achievement with Emerging Technology

Emerging Technologies

http://bit.ly/mec11-emergingtechnology

- Respond above to what you view is an emerging technologies



Emerging Technologies

- Intel Content

Emerging Technologies

- Online Learning
- Blended Learning
- 1:1 Instructional Environments
- Mobile Learning

Theory of Action

Benefit of Technology

- Deepens content learning
- Allows for varied instructional strategies
- Promotes 21st century skills
- Fosters digital citizenship
- Enables real-world connections
- Facilitates global citizenship
- Supports student-centered learning
- Prepares students for the future

Online Learning

- Fully online
- Blended Learning

Who has fully online programs?

Who has blended programs?

Statistics

- 75% of schools nationwide had a least one student enrolled in a fully online or hybrid class
- 57% of public secondary schools offer online learning options
- Over 50% of 3-5th graders indicated a desire to take an online class

Online Learning

- Discuss with your neighbor:

1. How could online or blended programs help student achievement?

2. What are some of the challenges?

Online Learning Research

- Students who took all or part of an online course did better than F2F
- Effective regardless of content area or type of learner
- Achievement was greatest when activities that prompted reflection were included

Standards for Online Programs

- Teaching & Learning
- Support
- Evaluation
  - Formative (program evaluation)
  - Summative (outcome-based)

Hybrid Learning

- 3 examples

- 9th Grade English Teacher
- 6th grade teacher (Math)
- Washington Teacher of the Year

1:1 Learning

- Does anyone experience in 1:1 learning schools?

- Would you share some of your experiences?

1:1 Learning

- Support anytime/anywhere learning

Jeff Mao, director of technology at the Maine Department of Education:

"One-to-one learning is not a tech project"

Teacher Roles

- Conventional Instruction, where teachers are in control of student learning, is not compatible with one-to-one learning environments.

- Both student and teacher roles must change if the benefits of one-to-one learning can be realized.

Student Roles

- Knowledge Producers
- Collaborators
- Self-directed learners

Student-Teacher Roles

- Discuss with your neighbor what changes to your current teacher/student roles may need to occur

Mobile Devices

- Nearly 1/3 of 6-8th grade students have cell phones with Internet Access
- 75% of 6-8th grade students have access to an iPod Touch-like device

Mobile Devices Scenarios

- Pair up with 2 partners next to you and read the 1 or 2 of the following scenarios:

- Discuss your thoughts about those scenarios?

Questions?

Contact:

- Cathy Poplin

Cathy.Poplin@azed.gov

- Brett Hinton

Brett.Hinton@azed.gov

Or 602-542-7884

- Brenda Wright

Brenda.Wright@azed.gov